

410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 60

ltki_Titin
TTN.h SASYAAEAVATGAKEVQDADKSAAVATVVAAVDMARVREPVIISAVEQTAQR~~T~~TTTAVHICPQE~~V~~RKEAEKTA~~V~~VVVAADAKEQELKSRTKE~~I~~TTTKQEQMHVTH~~E~~QIRKETEKTFV~~P~~PKVVISA~~A~~AKAEQET~~R~~ISEEITKKQKQV~~T~~QEAIMKET~~R~~KTV~~V~~PKVIVAT~~P~~KVEQD~~L~~V~~S~~R~~G~~REGI~~T~~TKR~~E~~QVQ~~I~~TQEK

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24762491.f
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610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 80

ltki_Titin
TTN.h MRKEAEK~~T~~ALSTI~~A~~AVAT~~A~~KAK~~E~~Q~~E~~TI~~I~~R~~T~~RET~~M~~ATRQ~~B~~Q~~I~~Q~~V~~T~~H~~~~G~~~~K~~~~D~~~~V~~~~G~~~~K~~~~K~~~~A~~EVAT~~V~~V~~V~~A~~V~~D~~Q~~~~A~~R~~V~~P~~R~~E~~G~~H~~L~~~~E~~~~S~~~~Y~~~~A~~~~Q~~~~O~~~~T~~~~T~~~~L~~~~E~~~~Y~~~~G~~~~Y~~~~K~~~~E~~~~R~~~~I~~~~S~~~~A~~~~K~~~~V~~~~A~~~~E~~~~P~~~~P~~~~Q~~~~R~~~~P~~~~A~~~~S~~~~E~~~~P~~~~H~~~~V~~~~V~~~~K~~~~A~~~~V~~~~K~~~~P~~~~R~~~~V~~~~I~~~~Q~~~~A~~~~S~~~~E~~~~T~~~~H~~~~I~~~~K~~~~T~~~~T~~~~D~~~~Q~~~~K~~~~G~~~~M~~~~H~~~~I~~~~S~~~~Q~~~~I~~~~K~~~~K~~~~T~~~~D~~~~L~~~~T~~~~T~~~~E~~~~R~~~~L~~~~H~~~~V~~~~V~~~~K~~~~R~~~~T~~~~A~~~~S~~~~P~~~~H~~~~E~~~~T~~~~V~~~~S~~~~I~~~~S~~~~V~~~~P~~~~K~~~~T~~~~E~~~~H~~~~G~~~~Y~~~~E~~~~A~~~~S~~~~I~~~~A~~~~G~~~~S~~~~A~~~~I~~~~T~~~~O~~~~Q~~~~K~~~~E~~

810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 10
 ltki_Titin
 TTN.h SATSSAQKITKSVKAPTVKPKSETRVRAEPTPLPQPFADTPDTYKSEAGVEVKKEGVSVTGTGTTVREERFEVLHGREAKVTEATARVPAFWEIPVTPTPLVSGLKNVTIEGESVTLCHISGYPSPTVWYREDYQIESSIDFQITFQSGTARLMIREAFAEDSGRFTCSAVNEAGTVSTSCYLAVQVSEEFKETTAVT
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 31213063.i
 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190 12
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 TTN.h EKFTTEEKRFVYESRDVVMTDTSLTEEQAGPGEPAAPYFITKPVVQLVEGGSVVFQCGQVGGNPKPHVYWKSGVPLTTGTYRKVSYNKQTGECKLVISMTFADDAGEYTIVVRNKHGETSASASLLEADYYLMKSQQEMLYQTQVTAFFVQEPEVGETAPGFVYSEYEKEYEKEQALIRKKMAKDITVVVRITYVEDQDFH
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ltki_Titin
TTN.h
VVLVEDENVKITAKLIVVEGAVVREFVKELQDIEVPESYSCELECIVSPENIECKWVHNDEWLKSNQKYITTSRRGRQNLTVKDVKEDQGEYSFVIDGKKTCILKMKPRTIAILQLSDQKVCEGDIVOLEVKVSESVVGVMXMDGGEVQP SDRVHTVIDRQS HMLLIEDMTKEDAGNYSFITXPAGLGSTSGRVSVISVD
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 TTN.h FPTVQSGKPARFCAMISGRPKISWYKEEQLLSTGFCKFLHDGQEYTLLLIEAFPEDAAYTCCEAKNDYGVATTSASLSVPEVVSPDQEMPVYPPAIITPLQDIVTSEGQPARFQCRVSGTDLKVSWSYSKDKKKIKPSRFFRMTQFEDTYQLEIAEAYFEDEGTYTFVANNAVQGSSTANLSEAPESILHIERIQ
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 TTN.h VTETFDGEVSLAWEPLTDGGSKIIGYVVERRDIKRKITWVLATDRAESCEFTVTLGLQKGGVEYLFRVSARNRVTGTGEPVETDNPVEARSKYDVGPPINVTITDVNRFGVSLTWEPPEYDGAETTNVYIELRDKTSIRWDTAMTVRAEDLSATVTDVVEGQEYSFRVRAQNRIGVKPSAATPFVKVADPTERPSPPVN
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6810 6820 6830 6840 6850 6860 6870 6880 6890 6900 6910 6920 6930 6940 6950 6960 6970 6980 6990 70
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 TTN.h LTSSDQTQSSVQLKWEPPPLKDGGSPILGYITERCEEGKDNWIRCNMKLVP~~ELTYKV~~TGLEKGNKYLYRVAENKA~~GVSDFSEILG~~PLTADD~~AF~~V~~EPTMDLSAF~~KDG~~LEV~~IPN~~PIT~~ILVP~~STGYF~~R~~PTAT~~WC~~F~~GD~~KV~~L~~E~~TG~~DRVKMKTLSAYAELVISP~~S~~ERDKGIVTLKLENRVKTISGEIDVNVIARPSAKPELKFG~~
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 7010 7020 7030 7040 7050 7060 7070 7080 7090 7100 7110 7120 7130 7140 7150 7160 7170 7180 7190 72
 ltki_Titin
 TTN.h DITKDSVHLTWEPPDDDGGSPLTGYYVEKREVSRTWKVMDFTVTDLEFTV~~PDLVQ~~CKEYL~~F~~KVCARNKCGPGEPAYV~~D~~E~~P~~VNM~~S~~TPATV~~P~~D~~P~~ENV~~K~~WDR~~T~~ANSIFLTWD~~P~~DK~~N~~GGSR~~I~~KG~~Y~~IV~~E~~RC~~P~~RGSD~~K~~WVAC~~G~~EPVAET~~K~~M~~V~~T~~G~~LEEGK~~W~~Y~~A~~RV~~K~~T~~L~~N~~R~~Q~~G~~A~~K~~P~~S~~R~~P~~TEETI~~Q~~AVDT~~Q~~EAPEI~~F~~LD~~V~~KL
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1tki_Titin
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11n.h RIVSVKVLVEDPKGPFKDLVSEAKRUSCILTIKETLDDGGVITINVERKDVASAVNLSIAKSNSFANKLNQYIPLRVAEENQIQRGFVBLPAFKALDPLRHPFGPFDPLRHPVDVKTBLSVWINKPDRDGKSTIGILVB1QBGEGIQDWIKFRKIVNGBCVV1GQKQKTRKRAEANVGGLCDT1A
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TTN.h IAKDILHPPPEVLDVTCDRVTIRVRVGQTIRILARVKGRPEPDITWTKEGKVLVREKRVDLTIQDLPRVLEQIKEAVRAHDHGKYIISAKNSGHAQGSIAIVNVLDRPGPCQNLKVTVNTKENCTISWEINPLDNGGSEITNFIVEYRKPNQKGWSIVASDVTKRLIKANLLANNEYFRVCACENKVGVGPTIETKTPILAINP
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12800 12610 12620 12630 12640 12650 12660 12670 12680 12690 12700 12710 12720 12730 12740 12750 12760 12770 12780 12790

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31242057.i
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smMLCK.h
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Obscn.h
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24762491.f
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31213063.i

13000 12810 12820 12830 12840 12850 12860 12870 12880 12890 12900 12910 12920 12930 12940 12950 12960 12970 12980 12990

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TTN.h SVAMKSLITVKAGTVCLDAATVPGKMPITVSWKDGTLIKPAEGIKMAMQRNLCTILEFSVNRKDSDYITATENSSGKSAТИKLKVLDKGPPASVKINKMSDRAMLSWEPPLEDGGSEITINYIVDKRETSRNWAVSATVITSCSVVKLIEGEHEYQFRICARENKYGVGDPVFTEPATAKNFYDPPGRCDPPVIS

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32565886.w
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14600 14410 14420 14430 14440 14450 14460 14470 14480 14490 14500 14510 14520 14530 14540 14550 14560 14570 14580 14590

1tki_Titin
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2858739.f
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SgK085.h
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32565886.w KPDGLPPPGDEKKL_RAGSPSTRK_SRKSASPTFSRKGSAGGA_SATSGSASSDA_SRDKYTRFPIVLEASRSQ_TGRI_GGSV_VLEVQWQCHS_TII_EWYRDGT_LVRN_SSEY_SQSFNGSI_AKLQVNKL_TEEKSGLYK_CHAKCDY_GEQQSSAMV_KI_EQ
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Obscn.h TCTVTEGKHARLSCVVTGEPK_ETVWKKDG_GLVT_GGRHV_VYEDA_QENFVLKILFC_KSDRG_LYTTCA_SNLV_GTYSVL_VV_VREPA_VF_KKLQD_LEVREKE_SATFLCEV_PQPS_STEAAWF_EETRLWAS_AKY_GIEEEGT_EERRLT_VRN
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35902617.m
Obscn.h
lia8_A
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19922872.f
31213063.i

31198185.i
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24653972.f
24653968.f
31200097.i
31197761.i
19921930.f
17570595.w
1kwp_A
2phk_A
35902617.m
Obscn.h **S**ARL**V**V**T**EL**P**V**S**F**S**R**P**L**Q**D**V**V**T**TE**K**E**V**T**L**E**C**E**L**S**R**P**N**D**V**R**W**L**K**D**G**V**E****L**R**A****G****K****T****M****A****I****A****Q****G****A****C****R****S****L****I****T****Y****R****C****E****F****A****D****G****Q****V****V****C****D****H****A****D****Q****S****S****A****S****V****K****V****Q****G****R****N****I****Q****I****V****R****P****L****E****D****V****E****V****M****E****K****G****A****T****F****S****C****E****V****H****S****D****E****V****P****G****Q****W****F****E****G****S****K****L****R****P****T****D****N****V****R****I****R****Q****E****R****T****Y****T****L****I****Y****R****V****L****A****E****D****A****G****E****I****Q****F****V****A****E****N****A****S****R****A****Q****L****R****V****K****E****L****P****V****T****L****V****R****P****L****R****D****K****I**
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19922872.f
31213063.i

18200 18010 18020 18030 18040 18050 18060 18070 18080 18090 18100 18110 18120 18130 18140 18150 18160 18170 18180 18190

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TTN.h **R**IF**A****E****N****R****Y****G****K****S****A****P****L****D****K****A****V****I****V****Q****X****P****-****F****K****E****P****G****P****G****T****F****V****T****I****S****K****D****Q****M****L****V****Q****W****H****E****P****V****N****D****G****G****K****I****I****G****Y****H****E****C****E****K****P****V****K****S****A****E****N****I****V****G****I****G****K****P****S****K****V****S****E****C****F****V****A****R****D****P****C****D****P****G****R****E****A****I****V****T****R****N****N****V****T****L****K****W****K****K****P****A****D****G****G****S****K****I****T****G****Y****I****V****E****K****D****L****P****G****R****W****M****K****A****S****F****T****N****V****L****E****T****E****F****T****V****S****G****L****V****E****D****Q****R****Y****E****P**
31242065.i **R**V**K****A****F****N****K****E****G****D****S****P****L****E****M****E****T****V****I****A****K****D****P****Y****S****V****P****S****K****G****R****Q****P****Q****T****N****W****S****K****D****F****V****E****L****E****W****A****A****P****K****S****D****G****G****A****P****V****T****E****Y****I****I****Q****K****R****D****K****R****D****T****R****G****T****V****E****D****V****E****G****H****E****Y****F****R****V****V****A****N****R****A****G****S****P****D****S****V****V****A****K****M**
28558739.f **R**V**R****A****N****K****E****G****E****S****E****D****L****E****T****E****K****P****I****I****A****K****N****P****Y****D****E****F****D****R****P****G****E****T****N****D****K****F****V****D****I****A****W****D****P****K****N****D****G****A****P****I****K****V****V****I****Q****R****D****K****S****G****R****A****W****D****S****A****V****P****G****D****K****C****N****G****T****V****T****C****V****E****E****G****H****E****Y****F****R****V****V****A****N****R****A****G****S****P****D****S****V****V****A****K****M**
31242057.i **R**V**K****A****V****N****N****E****G****E****S****P****L****S****A****D****Q****Y****T****Q****I****K****D****P****W****D****E****P****G****K****P****G****R****E****I****T****D****F****D****A****D****I****R****I****D****I****A****W****E****P****H****P****G****A****P****I****E****E****Y****I****V****E****R****V****D****P****T****K****E****W****K****V****R****P**
32565889.w **R**V**K****A****V****N****N****E****G****E****S****P****L****S****A****D****Q****Y****T****Q****I****K****D****P****W****D****E****P****G****K****P****G****R****E****I****T****D****F****D****A****D****I****R****I****D****I****A****W****E****P****H****P****G****A****P****I****E****E****Y****I****V****E****R****V****D****P****T****K****E****W****K****V****R****P**
32565886.w **R**V**K****A****V****N****N****E****G****E****S****P****L****S****A****D****Q****Y****T****Q****I****K****D****P****W****D****E****P****G****K****P****G****R****E****I****T****D****F****D****A****D****I****R****I****D****I****A****W****E****P****H****P****G****A****P****I****E****E****Y****I****V****E****R****V****D****P****T****K****E****W****K****V****R****P**

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SgK085.h
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34869218.m
37620153.m
smMLCK.h
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31198185.i
24653970.f
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24653966.f
31200097.i
31197761.i
19921930.f
17570595.w
1kwp_A
2phk_A
35902617.m
Obscn.h **M**E**K****H****R****G****V****L****E****C****Q****V****S****R****A****Q****V****R****W****F****K****G****S****Q****E****L****Q****P****G****K****Y****E****L****V****M****P****E****C****E****T****S****I****P****S****V****R****P****K****W****L****G****K****T****V****L****Q****A****G**

18200 18010 18020 18030 18040 18050 18060 18070 18080 18090 18100 18110 18120 18130 18140 18150 18160 18170 18180 18190

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TTN.h **I**KT**I**TM**T**E**C**Q**D**IL**D**NI**D**NI**E****K****V****S****I****F****K****L****R****E****H****V****I****H****T****F****D****G****K****P****B****E****E****Q****E****K****E****L****V****E****S****L****E****C****P****E****A****T****E****V****I****T****Y****I****E****K****T****N****I****L****T****K****A****I****Q****L****D****S****N****L****F****T****K****S****L****V****E****K****L****E****K****S****L****T****E****O****T****Q****V****K****L****I****D****K****S****K****E****M****I****G****L****Q****Q****N****L****M****D****I****F****I****I****L****D****L****D****L****D****E****R****T****E****K****I****N****K****I****L****I****L****S****E****Y****D****Y****I****E****K****K****E****Q****I****N****T****A****V****N****G****K****I****K****L****I****T****K****I****D****I****C****E**
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24653966.f
31200097.i
31197761.i
19921930.f
17570595.w
1kwp_A
2phk_A
35902617.m
Obscn.h **M**E**K****H****R****G****V****L****E****C****Q****V****S****R****A****Q****V****R****W****F****K****G****S****Q****E****L****Q****P****G****K****Y****E****L****V****M****P****E****C****E****T****S****I****P****S****V****R****P****K****W****L****G****K****T****V****L****Q****A****G**

18200 18010 18020 18030 18040 18050 18060 18070 18080 18090 18100 18110 18120 18130 18140 18150 18160 18170 18180 18190

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31242065.i **R**FL**A****P****I****D****R****K****N****L****D****K****K****I****L****R****S****Q****L****N****V****E****A****D****T****V****E****G****P****A****K****V****T****W****E****G****K****P****V****D****G****K****E****D****E****R****I****K****L****D****N****E****E****Y****K****T****N****V****I****R****N****L****K****R****S****D****A****G****I****Y****K****I****T****N****V****T****A****E****G****C****K****L****A****W****L****P****P****E****D****D****G****G****E****P****I****Q****A****Y****I****V****E****M****D****V****D****S****G****R****W****I****Q****V****-****C****E****T****R****F****E****A****D****V****T****G****L****Q****E****K****Y****M**
28558739.f **R**FL**K****P****I****D****R****K****N****L****D****K****K****I****M****R****S****Q****Q****M****L****H****I****D****A****L****I****K****A****E****P****P****A****K****V****T****W****T****Y****N****-****K****T****E****I****K****T****S****D****H****S****G****S****D****T****V****E****V****E****L****V****C****K****S****K****E****P****D****D****G****G****D****E****I****Y****Q****L****V****P****V****-****L****I****T****K****T****P****E****A****D****V****T****G****L****T****E****G****K****Y****E**
31242057.i **K****F****I****P****A****W****L****K****H****D****N****L****K****S****I****T****V****K****A****G****A****T****V****R****W****E****V****K****I****G****G****P****E****V****K****W****F****G****N****Q****Q****L****E****N****G****I****Q****L****T****D****I****D****R****K****N****H****-****T****I****L****C****I****P****S****A****M****R****D****V****G****E****Y****R****L****T****V****K****N****Q****H****G****A****D****E****E****K****A****N****L****T****V****I****D****R****P****S****K****N****G****P****L****E****V****S****D****V****E****N****D****N****L****S****W****K****P****D****D****G****G****E****I****E****Y****E****V****E****K****L****D****T****A****T****G****R****V****W****P****C**
32565889.w **K****F****I****P****A****W****L****K****H****D****N****L****K****S****I****T****V****K****A****G****A****T****V****R****W****E****V****K****I****G****G****P****E****V****K****W****F****G****N****Q****Q****L****E****N****G****I****Q****L****T****D****I****D****R****K****N****H****-****T****I****L****C****I****P****S****A****M****R****D****V****G****E****Y****R****L****T****V****K****N****Q****H****G****A****D****E****E****K****A****N****L****T****V****I****D****R****P****S****K****N****G****P****L****E****V****S****D****V****E****N****D****N****L****S****W****K****P****D****D****G****G****E****I****E****Y****E****V****E****K****L****D****T****A****T****G****R****V****W****P**
32565886.w **K****F****I****P****A****W****L****K****H****D****N****L****K****S****I****T****V****K****A****G****A****T****V****R****W****E****V****K****I****G****G****P****E****V****K****W****F****G****N****Q****Q****L****E****N****G****I****Q****L****T****D****I****D****R****K****N****H****-****T****I****L****C****I****P****S****A****M****R****D****V****G****E****Y****R****L****T****V****K****N****Q****H****G****A****D****E****E****K****A****N****L****T****V****I****D****R****P****S****K****N****G****P****L****E****V****S****D****V****E****N****D****N****L****S****W****K****P****D****D****G****G****E****I****E****Y****E****V****E****K****L****D****T****A****T****G****R****V****W****P**
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SgK085.h
30425168.m
34851393.m
caMLCK.h
skMLCK.h
17105364.m
25145902.w
25145904.w
1jkk_A

18400 18210 18220 18230 18240 18250 18260 18270 18280 18290 18300 18310 18320 18330 18340 18350 18360 18370 18380 18390

30425168.m
34851393.m
caMLCK.h
skMLCK.h
17105364.m
25145902.w
25145904.w
1jkk_A
34869218.m
37620153.m
smMLCK.h
31198181.i
31198185.i
24653970.f
24653966.f **E_TYVDKSSEKMI_SLQQS_MDIFVILDDFLDDETEVLK_PKIENIKTLLSDYDYIEKKDGFLTAVINGKINVV_SQRLITIIEEV_KV_LTENHD_OKEKDVSNAEADNFADEK_REES_KE_IKDSEAKH_KSKV_SSEKK_SIEBEKL_EDKERQ_TESAIDEKSQRAEV_SEIV_ESEKITDEKAQ_ES_KKE_V_KGSEAKPKKAKVLEKK**
24653974.f
24653972.f
24653968.f
31200097.i
31197761.i
19921930.f
17570595.w
1kwp_A
2phk_A
35902617.m
Obscn.h
lia8_A
24762491.f
19922872.f
31213063.i

AALRVTEKF_SVFS_RELTDATITEGEDLT_LV_CETSTCDIPV_CWT_KD_GKT_LRG_SARC_QL_SH_EG_HR_AQ_LITG_AT_LQ_DSGRYK_CEAGGACSS_SIV_RV_HAP_PVR_FQE

lko_a_Twitic
38074389.m
34875380.m
SgK085.h
30425168.m
34851393.m
caMLCK.h
skMLCK.h
17105364.m
25145902.w
25145904.w
1jkk_A
34869218.m
37620153.m
smMLCK.h
31198181.i
31198185.i
24653970.f
24653968.f
24653974.f
24653972.f
24653968.f
31200097.i
31197761.i
19921930.f
17570595.w
1kwp_A
2phk_A
35902617.m
Obscn.h
PVEWRKGRESLRQDGDRHSILRQDGAVCELOICGLAVADAGEYSCVCGEERTSATLTVKALPAKFTEGLRNREAVEGATAMLWCELSKVAPEVWRKGOPENLRQEGCTRECELICGLAMADAGEYLCVGCGERTSATLTIRALPARTFEDVKNQEARGETAVLQCELNAAFPVEWWRKGSETLRQDGDRYSLRQDG
lia8_A
24762491.f
19922872.f
31213063.i

19800 19610 19620 19630 19640 19650 19660 19670 19680 19690 19700 19710 19720 19730 19740 19750 19760 19770 19780 19790

198000 19810 19820 19830 19840 19850 19860 19870 19880 19890 19900 19910 19920 19930 19940 19950 19960 19970 19980 19990

ltki_Titin
TTN.h
31242065.i
28558739.i
31242057.i
32565889.w
32565886.w
1ko_a_Twitic
38074389.m
34875380.m
SgK085.h
30425168.m
34851393.m
caMLCK.h
skMLCK.h
17105364.m
25145902.w
25145904.w
1jkk_A
34869218.m
37620153.m
smMLCK.h
31198181.i
31198185.i
24653970.f
24653966.f
24653974.f
24653972.f
24653968.f
31200097.i
31197761.i
19921930.f
17570595.w
1kwp_A
2phk_A
35902617.m
Obscn.h
KCELQIRGLAMADTGEYSCVCGEERTSAMITVRALPIKPTCLRNEEATECATAVLRCELS.KMAPVEWKGHETLRDGRHSILRQDGARCELQIRGLVAEDAGEYLCMCGKERTSAMITVRAMP.SKFIECLRNEEATEGDTATLWCELS.-
lia8_A
24762491.f
19922872.f
31213063.i

20000 19810 19820 19830 19840 19850 19860 19870 19880 19890 19900 19910 19920 19930 19940 19950 19960 19970 19980 19990

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ltki_Titin
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31242057.i
32565889.w
32565886.w
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SgK085.h
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34851393.m
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skMLCK.h
17105364.m
25145902.w
25145904.w
1jkk_A
34869218.m
37620153.m
smMLCK.h
31198181.i
31198185.i
24653970.f
24653966.f
ES AIDEK S Q K A V S E I V S E N T D E K A Q R S Q K K E V K D S E A K P K K A V I L E K K S I E E K L E D K K E T Q T D S A I D E K S Q K A E V S E I V S E K I T D E K A Q E S Q K K E V K D S K A P K K A V I L E K K S I E E K L E D K K E T Q T S A I D
24653974.f
24653972.f
24653968.f
31200097.i
31197761.i
19921930.f
17570595.w
1kwp_A
2phk_A
35902617.m
Obscn.h
lia8_A
24762491.f
19922872.f
31213063.i

20210 20220 20230 20240 20250 20260 20270 20280 20290 20300 20310 20320 20330 20340 20350 20360 20370 20380 20390

31213063.i

17570595.w
1kwp_A
2phk_A
35902617.m
Obscn.h
lia8_A
24762491.f
19922872.f
31213063.i

21410 21420 21430 21440 21450 21460 21470 21480 21490 21500 21510 21520 21530 21540 21550 21560 21570 21580 21590

21600

1tki_Titin

TTN.h

31242065.i

28558739.f

31242057.i

32565889.w

32565886.w

1kao_Twite

38074389.m

34875380.m

SgK085.h

30425168.m

34851393.m

caMLCK.h

skMLCK.h

17105364.m

25145902.w

25145904.w

1jkk_A

34869218.m

37620153.m

smMLCK.h

31198181.i

31198185.i

24653970.f

24653966.f

DGGYERRSRMPDPSPKQMLYFTVNLSNRYVAEGSKVQLQAVIGGPQPMIKWLKDQNVTYGPNIERNNRDSLAVLEPTNAKVVEDSGTYSIVAQNESCKITTSAMLHVYETKVNTDVQPVFIRSLKETYHLNTNELILETAVRGQPTPAVQWFDSIEIQSGGRFQITEHQDGTCELIIDRPDNKDSGKYVVKAESRAGKM

24653974.f

24653972.f

DGGYERRSRMPDPSPKQMLYFTVNLSNRYVAEGSKVQLQAVIGGPQPMIKWLKDQNVTYGPNIERNNRDSLAVLEPTNAKVVEDSGTYSIVAQNESCKITTSAMLHVYETKVNTDVQPVFIRSLKETYHLNTNELILETAVRGQPTPAVQWFDSIEIQSGGRFQITEHQDGTCELIIDRPDNKDSGKYVVKAESRAGKM

31200097.i

31197761.i

19921930.f

17570595.w

1kwp_A

2phk_A

35902617.m

Obscn.h

lia8_A

24762491.f

19922872.f

31213063.i

21610 21620 21630 21640 21650 21660 21670 21680 21690 21700 21710 21720 21730 21740 21750 21760 21770 21780 21790

21800

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TTN.h

31242065.i

28558739.f

31242057.i

32565889.w

32565886.w

1kao_Twite

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34875380.m

SgK085.h

30425168.m

34851393.m

caMLCK.h

skMLCK.h

17105364.m

25145902.w

25145904.w

1jkk_A

34869218.m

37620153.m

smMLCK.h

31198181.i

31198185.i

24653970.f

24653966.f

EISHYVLFEQQSHHIAENIHGVFHADSKLLRKEVEKPVEKKPAPAAEPSEAEDGAKRRAKKEEDDGASSAYATDYASDTSSLSSKRREKNIAHFSTSMDRVVAEGSKVKISCFLEAKEFQVKWFKDGEQIQLNSPKIRGRYSEGICLLEVMMSATAEDNGEYKCWGRDETGEASTSCRLEVYENPGTDVPPFTRN

24653974.f

24653972.f

24653970.f
24653966.f
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AAKAKAREAKLRLNLE
24653974.f
24653972.f
GPRSKMSMQDGIAWLNLVGVTEEDAGEYTLRVRGSENEIVSTCNLFVYSTCKPEVIPPFTVVGKDAYHSQGNQLTLECKVSGSPKPHIYWORDNTLLPIEGTKYQYEEQSDGIKLLTINNFGSNDSGLYTCYAESENGOMKISKFVQASDVXRERIADEKKPIDKVQIEIKRDDESSAAANDTA
AAKAKAREAKLRLNLE
31200097.i
31197761.i
19921930.f
17570595.w
1kwp_A
2phk_A
35902617.m
Obscn.h
lia8_A
24762491.f
19922872.f
31213063.i
QTPLS
KNTVV
DRIQII
EAEKPK
22400
22210 22220 22230 22240 22250 22260 22270 22280 22290 22300 22310 22320 22330 22340 22350 22360 22370 22380 22390
22400
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31242065.i HLDINFITGEVPEVWWILNCKPVQTDKRTMTALGHHTLVHVNCNRGDSGYKLUVSNSSGTDGFSNLTVLDRDPPGPGPTVYEEITEKSVTISWKPLDNGGSELTGXVWEKKDLTHGGWVPAVAVVSKYHTTVVPRLNKGKVEFRVMAENLOGRSRDLGMSAHFVAKDQFVVPGPPTKPDIIIDSGYEQITLSW
28558739.f HTDIHFIGEPAPEATWTLNBNPLLSNDRSTTISIGHHSVVHTVNCRSRDSGIVYHLLRNNSGIDEGSFELVVLDRPGPPEGPMYEETIANSVTISWKPKDNGSEISSYVIEKRLDTHGGWVPAVNVSYASAKYNHAVVPRLLEGTMVELRVMAENIQGRSDPLTSQPVVAKSQYTVPGAPGKPELTDSKDKNHITIKW
31242057.i
32565889.N NLEVDFIGADPDTATWTVGDSAAALAPELLVDAKSSTTISIFPPSAKRADSGNYKLKVKEGLDEAIFEVIVQDRPSAPEGPLEVSVDVTKDSCVLNWKPDKDGGAEISNYVVEKRTDTKIN-TWVPSAFVTG-TSITVPKLTECHEYEFRVMAENTFGRSDELNTDEPVLA
KDPFGTPGKGRPEIVDTONDHIDIKW
32565886.w NLEVDFIGADPDTATWTVGDSAAALAPELLVDAKSSTTISIFPPSAKRADSGNYKLKVKEGLDEAIFEVIVQDRPSAPEGPLEVSVDVTKDSCVLNWKPDKDGGAEISNYVVEKRTDTKIN-TWVPSAFVTG-TSITVPKLTECHEYEFRVMAENTFGRSDELNTDEPVLA
KDPFGTPGKGRPEIVDTONDHIDIKW
1koa_Twic
38074389.m
34875380.m
SgK085.h
30425168.m
34851393.m
caMLCK.h
skMLCK.h
17105364.m
25145902.w
25145904.w
1jkk_A
34869218.m
37620153.m
smMLCK.h
31198181.i
31198185.i
24653970.f TSLKTMТИSGNKAQLICYVTGIIEDVHWRNDRERTKDAHKIYNINGAISLEYDARVEDSGHYRCVVKNQRQVEAAGQLSVDQSTGKLPEFSSGIIESYDDQRNEIVLSCQVIGRPSVSMRDDHSICNNRYRTIEEPGGVRKLVIRNP
ISSDCGIFACYAEHEDRIDSTSITIKAADLKRLINVQSCEEIPSIG
24653974.f
24653972.f TSLKTMТИSGNKAQLICYVTGIIEDVHWRNDRERTKDAHKIYNINGAISLEYDARVEDSGHYRCVVKNQRQVEAAGQLSVDQSTGKLPEFSSGIIESYDDQRNEIVLSCQVIGRPSVSMRDDHSICNNRYRTIEEPGGVRKLVIRNP
ISSDCGIFACYAEHEDRIDSTSITIKAADLKRLINVQSCEEIPSIG
24653966.f
24653966.f TSLKTMТИSGNKAQLICYVTGIIEDVHWRNDRERTKDAHKIYNINGAISLEYDARVEDSGHYRCVVKNQRQVEAAGQLSVDQSTGKLPEFSSGIIESYDDQRNEIVLSCQVIGRPSVSMRDDHSICNNRYRTIEEPGGVRKLVIRNP
ISSDCGIFACYAEHEDRIDSTSITIKAADLKRLINVQSCEEIPSIG
31200097.i
31197761.i
19921930.f
17570595.w
1kwp_A
2phk_A
35902617.m EASGRLSALGR-SPLRLVRAGSRILD-KLQFFEEERRSLSLERSDSPP-APLRFWVPLRKARSLEQPKSEGGAAWGTPEASQEELRSPRGSVAE-RRRLFQKQAASLDERTQRSATSDLELRFQAELGRIRRSTSREELVRSHESIRATL
Obscn.h RGLENVEALEGGGEALFECQLSQREVAHTWLDDFVRVSNEAVVVFFENCLRHILLKKNLROPDSRCVFLAGDMVTSASFILTVRGWRLIELLEPLKNAAVRAGAQRFTCTLSEAVEPVGAEWSINGAAVQPDSSDWVTA
DGSHHALLRSQAQPHHGEVTFACRDAVASAWLTVLGLDPEDEAVVARSHTVLSW
lia8_A
24762491.f RDKDYLGFYELVIADIQKTDAGTYSCKATNKHGEANCEAIATTVEDKNPFGALSGQILPAGEKPFVQWKRNGEEFDPEERFKVLFGEDEDLSALVFQHVKPEDAGIYTCVATSTGNISCAELS
VQGAIQTLNREPEKPTLVIIEHREANASIGGSAILELQCKGFPKPAVQWKHGEVIVQDDRHKFMYEDEESMSLV
19922872.f EPTSAQSPQTESLSKIQQIESKYAALKARQQQLQEIKAQEVTEETTVITVAQQQTQTPSVEED
31213063.i QTKIAQIEAKYAFKROQSLSDVDESLSKLPVPVKKEVEVQSTVKVAKQETTA
JKTQVKTSEVKAEEIKSAEVKVOETVKVEQK-EVKESKKIP
22600
22410 22420 22430 22440 22450 22460 22470 22480 22490 22500 22510 22520 22530 22540 22550 22560 22570 22580 22590
22600
1tki_Titin
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YIVSENFDTYEFRLVLA
KNAAGVSKGSESTGPTC
RDEYAPKAELDARLHQEDLVTIRA
31242065.i KPPPSDGGSRISGYIIERRDLATGRWIQANKYVNVIEYTDIGVVKHGQHGEYEVRSAVNQAGQGNPSDSSVKCWAR
PMQOAPALNMDSFSKRTTKVRA
28558739.f KQPIISNGGSPPIGYDIERRDVNTGRWIKINGQFVPTAEYQDDRVTNSHNQYQYRISAVNAANGKTS
SEPSAIFNAR
PLREKPRFYFDGLIGKRIKVRA
31242057.i
32565889.N DPPRDNGGSPVHDYDIERKDACKRWIKVNTSPVQGQTA
FSIDRVCKGHTYEYRVVAVVNKA
GPGPQPSDSSAATAK
PMHEAPKF
DLD-LDGKEFVRKA
32565886.w DPPRDNGGSPVHDYDIERKDACKRWIKVNTSPVQGQTA
FSIDRVCKGHTYEYRVVAVVNKA
GPGPQPSDSSAATAK
PMHEAPKF
DLD-LDGKEFVRKA
1koa_Twic
38074389.m
34875380.m
SgK085.h
30425168.m
34851393.m
caMLCK.h
skMLCK.h
17105364.m
25145902.w
25145904.w
1jkk_A
34869218.m

25145902.w
 25145904.w
 1jkk_A
 34869218.m
 37620153.m
 smMLCK.h
 31198181.i
 31198185.i
 24653970.f
 24653966.f
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 24653974.f
 24653972.f
 24653968.f
 RVSKEVVSDDYTRFSVQQAQISDGGTYFVVVARNNFGTIDRIFVTVNPRARSATPTQFRWGLPLDSYSDTSYFRDPPGCISTEPLVVDSGPTHISLSWGKPVANSAPVMAXKVEAWVVGHEGGAYWRELGLTPINSFDAFNLKPVNVEYIFRVTPKNRYGWGPTVQTSSPLQVGGVECLPEFVKILPGQA^{KALLG}
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 31197761.i
 19921930.f
 17570595.w
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 2phk_A
 35902617.m
 Obscn.h
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 lia8_A
 24762491.f
 K^WY^ID^GI^EI^DK^RN^DF^RH^VE^EG^ND^FK^LI^MN^QV^AT^NM^QG^NY^TC^KI^ND^YG^KL^ED^NC^VV^IV^NC^KE^PK^VK^RG^LK^NV^EV^QE^GK^GF^TL^EV^EV^IS^EP^AK^IK^WF^KD^GH^EI^YE^DA^RI^KI^SR^DT^QR^IE^NY^LT^LN^IA^RT^ED^AG^TV^EM^KA^TN^FI^GE^BT^TT^CK^VA^LT^SE^AS^LE^QT^VI^KT^IL^AT^EE^PG^EA^VE^IV^HD^VF^Q
 19922872.f
 31213063.i
 -VK^VE^KP^SE^AK^TA^KP^AE^AK^PS^PS^KL^PE^TK^PS^KP^AE^IK^PV^EQ^AK^AT^FE^PF^KV^VS^EP^VK^VE^AP^KA^TQ^PA^KE^PV^KA^EP
 -TK^TE^TP^KP^VQ^EA^KP^AE^PT^KPL^AN^KP^AE^AP^KV^AE^AP^KV^EQ^FA^RP

	23010	23020	23030	23040	23050	23060	23070	23080	23090	23100	23110	23120	23130	23140	23150	23160	23170	23180	23190
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23200
 1tki_Titin
 TTN.h
 AGA^SLR^LM^VS^VGR^PPP^VI^TWS^KQ^GI^DL^AS^RA^II^DT^TE^SY^SL^LI^VD^KV^NR^YD^AG^KY^TI^EA^NQ^SG^KK^SA^TV^LV^KV^DT^PG^PC^SV^KV^ER^SD^VT^IT^WE^IT^PI^DG^GA^PI^{NN}Y^VE^KR^EA^MR^AF^KV^TT^KC^SK^TL^YR^IS^GL^VE^GT^MH^YF^RV^LP^EN^IY^GI^GE^PC^ET^SD^{AV}I^VS^EV^PL^VPA^KL^EV^VD^TK^ST^VI^LA^WE^KL^L

31242065.i
 28558739.f
 31242057.i
 32565889.w
 32565886.w
 1kco_Twic
 38074389.m
 34875380.m
 SgK085.h
 30425168.m
 34851393.m
 caMLCK.h
 skMLCK.h
 17105364.m
 25145902.w
 25145904.w
 1jkk_A
 34869218.m
 37620153.m
 smMLCK.h
 31198181.i
 31198185.i
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 24653972.f
 24653968.f
 31200097.i
 31197761.i
 19921930.f
 17570595.w
 1kwp_A
 2phk_A
 35902617.m
 Obscn.h
 lia8_A
 24762491.f
 19922872.f
 31213063.i

	23210	23220	23230	23240	23250	23260	23270	23280	23290	23300	23310	23320	23330	23340	23350	23360	23370	23380	23390
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23400
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 YDGGSR^LT^GV^VL^EA^CK^AT^ER^WM^KV^VT^LK^PT^VL^EH^TV^TS^LN^EG^EQ^YL^FR^IA^QN^EK^GV^SE^FR^ET^VT^AV^TV^QD^LR^VL^PT^ID^LS^TM^PQ^KT^IH^VA^GR^PP^AA^SW^FA^G-SKL^RE^SR^VT^VE^BH^TK^VA^KL^IT^RE^TT^IR^DT^GE^YI^LE^LK^NV^TG^TS^TE^IK^VI^IL^DK^GP^FI^KI^DE^IA^TS^II^TS^WR^PP^E
 31242065.i
 28558739.f
 31242057.i
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 SgK085.h
 30425168.m

34851393.m
caMLCK.h
skMLCK.h
17105364.m
25145902.w
25145904.w
1jkk_A
34869218.m
37620153.m
smMLCK.h
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1kwp_A
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35902617.m
Obscn.h
lia8_A
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23600

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31242057.i
32565889.w
32565886.w
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38074389.m
34875380.m
SgK085.h
30425168.m
34851393.m
caMLCK.h
skMLCK.h
17105364.m
25145902.w
25145904.w
1jkk_A
34869218.m
37620153.m
smMLCK.h
31198181.i
31198185.i
24653970.f
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24653974.f
24653972.f
24653968.f
32100097.i
31197761.i
19921930.f
17570595.w
1kwp_A
2phk_A
35902617.m
Obscn.h
lia8_A
24762491.f
19922872.f
31213063.i

23610 23620 23630 23640 23650 23660 23670 23680 23690 23700 23710 23720 23730 23740 23750 23760 23770 23780 23790

23800

1tki_Titin
TTN.h
31242065.i
28558739.f
31242057.i
32565889.w
32565886.w
1ko_a_Twite

38074389.m
 34875380.m
 SgK085.h
 30425168.m
 34851393.m
 caMLCK.h
 skMLCK.h
 17105364.m
 25145902.w
 25145904.w
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 34869218.m
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 smMLCK.h PKFESQDPSQEVEKRNQTVKFRCEVSGIDKPEVANFLEGETPVRRQEGSIEEVYEDAGSYHLCILLKRARTDGSYCTASNAQQVSCSWTLQVERLAVMEVAPSFS - SVLKDCAVIEQDQFVLCSCVRGTPVIRITWLNGQPIQYARSTCEAG - VAEHLHQDALPEDRGTYTCIA
 31198181.i
 31198185.i
 24653970.f DFYVPLDPFYIFREGSEIRLSTKVBAYPSVGVTWRNGMRLRPSRRLTATLDSNGYVELIIAEATVRDAGIYVCVASNVVGKVETICRVAVEEEAENKAVALPORSLEIPSIKTDLDPYSKEPLFVVKPRSSSEAYEGDNVIIIFCEVVGDPKPEVVWLDFLNPNEYKDAPHFRRIGDGPEYRLEIPSAKLDFGTYSVIA
 24653966.f DFYVPLDPFYIFREGSEIRLSTKVBAYPSVGVTWRNGMRLRPSRRLTATLDSNGYVELIIAEATVRDAGIYVCVASNVVGKVETICRVAVEEEAENKAVALPORSLEIPSIKTDLDPYSKEPLFVVKPRSSSEAYEGDNVIIIFCEVVGDPKPEVVWLDFLNPNEYKDAPHFRRIGDGPEYRLEIPSAKLDFGTYSVIA
 24653974.f
 24653972.f
 24653968.f
 31200097.i
 31197761.i
 19921930.f
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 1kwp_A
 2phk_A
 35902617.m ESRSLAVLAPLQDVVGAG-EMALFECLVAGFADVEVDWLRCGRLLQFALLKCKMHFDGRKCKLLLTSVHEDDSGVYTCKLSTAKDELTC SARLTVRPS - LAPLFTRLLEDVEVLEGRAARLDCKISGTPPPSVTWTHFGHP - VNEGDNLRLRQDGGLH
 Obscn.h SYFSAQGYLSRSREQEGTESTTDGEGLPGVVEELRDVQVAPGPTRLAKFQLVKGYPAFLYWFKDQPLT-ASAHI RMTDKKILHTLEIISVTREDSGQYAAYISNAMGAAYSSARLVRGPDEPEEKPASDVHQLVPRLMRERTKKVKGSSITFSVKGVRPFTVHWLREEAERGVWLWIGDTPFGYTVASSAQH
 1ia8_A
 24762491.f ALVQANPKPKVSWTRGNENLNCHNCEVIADVDADKYRLVFQSVPSCEDGKYTTATINSEGRAAVDFNIALVLEKPTFTIVQPESQSIHDYRPFVSTKVLVHGVLPTIIEWFKDDKPIINYEAINKPKDLYAKEDTKKGTDQIESVLDIKFREN DVGAYTCVATNEIGVTKAPFKLAMLSSLAPSFVKLDDNALDVLQGEP
 19922872.f
 31213063.i VLVKANPKPKVTVTKDGLNLNNNDCDVIADIEKEVYTLVIESCALAEHGTYLTLTASNAQGETVATANLVTEK-KFTKEPDSLTVHDWADYVNKKVQQGVPRPAIQWLHNQGTLDTQEIDEESESQEK- IKIVTSGDTEVTSELFITHFGPELOQGEYSCLATSIGGETEAKFN1QVKN EQPVFCKGLERSLDDLEEDR

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34875380.m

Sgk085.h
30425168.m

34851393.m
CaMLCK.h

skMLCK.h
17105364.m

25145902.w
25145904.w

**1_jkk_A
34869218.m**

31198181.1
31198185.1

24653968 CHGEAKAVISLGIFAKDILNKRMDKVHTRIGNTIELTFRVRNLRNLRCCDGAIASLECHVEADPFFIIWEEKDGRVMPSSRDYVMSFDGKTATLSIPRVPYEDGEBYTCVAKNSVGRSLSSACIIVDVPEEKENMLRSQLARISGLLSAHSFRSTFRSPARSFSPLRLSYRTTSIDLSGVAERRSDARNATAKPF

570595.w
1rbk_A
2rbk_A

19922872.5
11213063.5
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31242057.i ERILG -TPDYLQ PELLQQGHGPADVWWALG
 32565889.w PLEDGGSKITIGYVNEIREYGSTLWTVASDYNREPEFTIVDKLREFNDYEFRVVAINAAGKGIPSLSPGPKIQUESTGGERPQIVVKPEDTAOPYNRAVFICCAVGRPEPTARVLNRNGRELPE-SRYRPEASDGVKFTIKEVWDIDAGEYTVEVSNPYGSDTATANLVVQAPPVIEKDVPNTILPSGDVLRKLYKTFSG
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 SgK085.h -
 30425168.m - MSGVSEEDP
 34851393.m - MSGVSEEDP
 caMLCK.h - MSGTAKES
 skMLCK.h -
 17105364.m -
 25145902.w - MSGVSEEDP
 25145904.w -
 1jkk_A
 34869218.m -
 37620153.m PWHAQYEILLKNRVGECSCOVSLMLHNPSRAPRGRERPASCCEGLCGGGVGVAHGDGDRGTTLRPCWPARGQWEEBEDGEDVRQLLKERVETRQHTEAIRQEVGOLDFRDLGKVKSTKTVSEDDLKDPACQMDFRANLQRQVKPKTISEERKVHSPOQVDERSVLAKKGTPTKPVIEKAPP-KAATPDRSVL
 smMLCK.h PWHAQYEILLKNRVGECSCOVSLMLHNPSRAPRGRERPASCCEGLCGGGVGVAHGDGDRGTTLRPCWPARGQWEEBEDGEDVRQLLKERVETRQHTEAIRQEVGOLDFRDLGKVKSTKTVSEDDLKDPACQMDFRANLQRQVKPKTISEERKVHSPOQVDERSVLAKKGTPTKPVIEKAPP-KAATPDRSVL
 31198181.i LAIP - YNRVVEEGDSVRFQCAISGHPTPWATWDKGTLIVPTPRIAVKEIDDLRIIEIDEVIFDDAGLYRVTILENDFGRIEATARLDVIRSSRSKSPSPVSRASSSRNAHYRRIMGSTAIGGRMALASGYRGSSVPSVRFYHDVLEASERVHILLQDSMALLIVDNVIREDEGGYTCIISGDHPLITSTT
 31198185.i LAIP - YNRVVEEGDSVRFQCAISGHPTPWATWDKGTLIVPTPRIAVKEIDDLRIIEIDEVIFDDAGLYRVTILENDFGRIEATARLDVIRSSRSKSPSPVSRASSSRNAHYRRIMGSTAIGGRMALASGYRGSSVPSVRFYHDVLEASERVHILLQDSMALLIVDNVIREDEGGYTCIISGDHPLITSTT
 24653970.f LAIP - YNRVVEEGDSVRFQCAISGHPTPWATWDKGTLIVPTPRIAVKEIDDLRIIEIDEVIFDDAGLYRVTILENDFGRIEATARLDVIRSSRSKSPSPVSRASSSRNAHYRRIMGSTAIGGRMALASGYRGSSVPSVRFYHDVLEASERVHILLQDSMALLIVDNVIREDEGGYTCIISGDHPLITSTT
 24653966.f LAIP - YNRVVEEGDSVRFQCAISGHPTPWATWDKGTLIVPTPRIAVKEIDDLRIIEIDEVIFDDAGLYRVTILENDFGRIEATARLDVIRSSRSKSPSPVSRASSSRNAHYRRIMGSTAIGGRMALASGYRGSSVPSVRFYHDVLEASERVHILLQDSMALLIVDNVIREDEGGYTCIISGDHPLITSTT
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 24653972.f LAIP - YNRVVEEGDSVRFQCAISGHPTPWATWDKGTLIVPTPRIAVKEIDDLRIIEIDEVIFDDAGLYRVTILENDFGRIEATARLDVIRSSRSKSPSPVSRASSSRNAHYRRIMGSTAIGGRMALASGYRGSSVPSVRFYHDVLEASERVHILLQDSMALLIVDNVIREDEGGYTCIISGDHPLITSTT
 24653968.f LAIP - YNRVVEEGDSVRFQCAISGHPTPWATWDKGTLIVPTPRIAVKEIDDLRIIEIDEVIFDDAGLYRVTILENDFGRIEATARLDVIRSSRSKSPSPVSRASSSRNAHYRRIMGSTAIGGRMALASGYRGSSVPSVRFYHDVLEASERVHILLQDSMALLIVDNVIREDEGGYTCIISGDHPLITSTT
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 31197761.i -
 19921930.f -
 17570595.w -
 1kwp_A -
 2phk_A -
 35902617.m PEHGDLERLSIP DFLRPLQDLEVG LAKEAMLECQVTGLPYPTISWFHNG-
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 lia8_A -
 24762491.f VVGNPKPKLQWFHNGHEIKPDASHIAIVEPNDSNLLIEKTAPGDSGLYEVIAQNPGSTASKAKLYVAPKADETATEAAPQFVSLRDVNADEQGQELVLSAPFISNMPPEVINSKDGVTLPNERLLMTCDKGHIGLTICKPAEAADSGNYTCLLANFLGEDSSACANVRVYKPPVFTQKISDQQVFGNNAKIPV
 19922872.f -
 31213063.i VIGYPQPAVFKTHNGTLVACDR-YRITEEGEGAFTLADKTTGIDCCEYQAIATNEHGETISAATVNILPTTDPSLPEEPSFLGGLRDTADEGKELTFSARFAGNPBEVIWTKDGEPLOPTGRVSVTCDCGSVGLTITPAEMSDSGEYACIMANPLGETETRAATIVRKVFPNFTSDMQLPGLEAKFPK
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 24400 .
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 31242065.i DQPMEVNISKDRKLVET-EHICKYTVFDDYAVITYIRDVLTDKGVLVNFKNDSGSVCNCNVHVTLGLPGRPPTGFLVSHVTKNMCTVSWKPPAHDDGRKVTYIVVERDIKS-QHMLIVSNEYKESQLIKGLIEGSEYLFVRSVANENGICPALEGVDPIKARGPYDLSAPGVPIIHEVGGDFVNLEWEKVSVDG
 2855739.i DQPPLTVILKKNNENVICDSNDTHVKVNIFPDDYVVAIYIRNIVKSDGPPYQIEFTNESGSAIEFYVHITGMPSAPTMGQSYDGGLVKVSHYVIERKDVSS-PHWITVSSSTCKDCAFNVQGLIENYEYIFRVMAVNENGMCPPLEGENPNIRAKDPIDPPSPGSPQITPEIGGDVFHLEWEKPSEDG
 31242057.i VCLYEFITGVVP FNDETPQKFENILGR LIENP SDEESELSP EAAVAEQLLEMIDQTTRPAAEQMQRMP FFACIDWKN
 32565886.w TAPPRHSLVNRREEIDDMH-TIRIVFEDPDLITIPALSVERAEGREYETVSDGEATTGFWLNVTLGLPEAPQGLPHTLHSNIGPSTATSLWSPRPFTDGGSKITSYVVEKRDLSK-DEWVITVTSNVRDMMNYIVTGLFENREYFVRSAQENGICAPLVSQHNRDLSK-DEWDVITVTSNVRDMMNYIVTGLFENREYFVRSAQENGICAPLVSQHNRDLSK
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 1koa_Twitec 38074389.m MGAHSKGLLCMEQHKPLLSWFLOSSSATRDSYMALFIQYSSSDTELFDYKQCAEENVWSNRALD-
 34875380.m -MLXVKRLEEFISCHSSNPIEKVAFQQCMEEVIEVKVCFLEENSNLIDLQSGDNAAEENVWSNHILN-
 SgK085.h -MLXVKRLEEFINTCYNSNQLEKMAFFQCRREEVIEVKVCFLEKNSGDQDSRSGHNEAKE-VWSNADLT-
 30425168.m EGLAPQGLPAGGACLATMDKLNVLT-EKVRDLLHFQEDVTEKLQCVCGMDHLEQDLHLRLBEASRELSSLAGSGSTPTTAQAAWPEVLELN-
 34851393.h EGLGPQCLPAGGACLATMDKLNVLT-EKVRDLLHFQEDVTEKLQCVCGMDHLEQDLHLRLBEASRELSSLAGSGSTPTTAQAAWPEVLELN-
 caMLCK.h -LGHGGLPGLGKICLTTMDTKLNMLN-EKVDQLLHFQEDVTEKLQSMCRDMGHHLERGLRLEASAREAPGPGGADGVPHIDTQAGWPEVLELVRAMQQDAQHGRARLEALFCKMVVAVDRAITLVGSTITQNSKVDDFLQGTVWWRKGSILADGPE-
 skMLCK.h -MATENGAVELGQPSLSDTPHPP-VDPGCLTSSADAKPQKPTGERFLAAG-KDPGPPD-
 17105364.m -MATENGAVELGQPSLSDTPHPP-TDAAGDGSFAKEPSLDPDTEKDLGFTNKKDPGAPD-
 25145902.w -
 25145904.w -
 1jkk_A -
 34869218.m -
 37620153.m MTYGLN GKKKKSPSENGGNAEVLNVKAGESTPAGDGAQIALPKVGNAKPAETPKPIGANAKTETILKIVANTKPAETILKPIANAQSPGSSLKPVNTNAQPAEPQPKVGNAKSAETSKPACKEEVKEVKNDVNCKKQGVRTGNKEKRPEQSQGSAPVFKELQDVSIVAEKEKLQDQCVIISDPPATVWSLNGKTLKTTKPIVLAQEG
 smMLCK.h GKKKKLPAENGSSAETLNKAVESSKPLSNAQSPGSLPKPVGNAKPAETLKPMGNAKPAETLKPMGNAKPDENLKSAS KEELKKDVKNDVNCKRGHAGTTDNKRSSESQGTAPFKQKLQDVKHVAEGKQLLQCQVSISDPPATIWTINGKTLKTTKPIIILSQEG
 31198181.i -
 31198185.i -
 24653970.f VTFHDSNTEIRRRRAVITERLPEITKSLEGEVIDLCCSIECDEPYSYVWLNRGEILPDSDEFNYIDHGNGLCLRINDAFIDDSG -IYSCQVFTSDINDSTSDFDSHICSLINSGCDCSSSGELCVLERDLRGQDEECVQLLKTPLPVVVCASGDEALFYARVFPCDA
 24653966.f VTFHDSNTEIRRRRAVITERLPEITKSLEGEVIDLCCSIECDEPYSYVWLNRGEILPDSDEFNYIDHGNGLCLRINDAFIDDSG -IYSCQVFTSDINDSTSDFDSHICSLINSGCDCSSSGELCVLERDLRGQDEECVQLLKTPLPVVVCASGDEALFYARVFPCDA
 24653972.f -
 24653968.f -
 31200097.i -
 31197761.i -
 19921930.f -
 17570595.w -
 1kwp_A -
 2phk_A -
 35902617.m HRIQSSDDRMMTQYRDINHRLVFPAVGPQHAGVYKSVIAN -KLGAACAYAHLYVTDVVFGP- PDGAPEVVAVTGRMVTLSWNPPRSIDMAIDPDSLTYTVHQVLGSD QWTAALVTLREPAATGLKGQHIFRVLSSSGK
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 lia8_A -
 24762491.f VSGVFPYDLYWYQFDKIPKSEKYSIKNDGHDHMLIVNNCEKGQVYKCIASNRKGKDTQGRLLDIVEIKKHSRSEPPVFLKKIGDCDIEYGMVAKFTACATGYPEPEVWFKNDQKLFPSSDRFLIDIEPNGLLRLTIKNVTEYDVGRYSCRIFNPYGDICHAEFLYDSDLSDQKQPLDQYDFKKYKSGAPPPLS
 19922872.f -
 31213063.i LVGVPRLEVQWYKNEPISIHDYRKMVKYEDGCVCLYIKECAEEDYGLYSCATNREGSSTIEAKLWDVTRIEKDEPTPPSFMKKLNDMILIDGMKALKLTVCDGFPMPTEWIRDGRLVPSKEYRIAEKNGLARLIVDDVQEEEDLORYSCAKVNLGEAICHANLKFEB- PSDYRPRRYZVKGKGDLLHTPPYPLT

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31242065.i GARIQGWYKREQDIDTWQRVNNTLCVICTINCANLVEGRYIPEFRAAAQNEIGVSKASQLVKVEDDVVKPPEVKPLNLTLCVONGVFVCKTGVPRPITWKGAREICSG-SRYHMYSDGDTHHALINDADEYTCRAANRRGVSTKASLIQSPKLNFLPRT-
28558739.f GAHQIGWYDKEVGSNTQRVNAATICAQINCINLIEGRQYEPRIFAQNVAGLSTESSAQAVKIIDPQAASPLIVKPLRDANCIONHNAQFTCTINGVPKPTISWYKGAREISNG-ARYHMYSEGDNHFLNIDVFGEDADEYVCRVNKA
31242057.i GSTRATLAIMTAKLNVPFR-MSQLEPFFINPDDPQ-DIAYDFKGGENVIKIPPT
32565889.w GGRLRGYIVIEKEQEEHDEWRCPNQNSPNNYVNLIDGKRYRVRFAVNDAGLSLAELDQT-LFQASGSGEGPKIVSPLSDLINNEVGRCVTECEISGSPREYRFWFKGCKELVDT-SKYTLINKGDKQVLLINDLTSDDADEYTCRATNSGTRSTRANL
32565886.w GGRLRGYIVIEKEQEEHDEWRCPNQNSPNNYVNLIDGKRYRVRFAVNDAGLSLAELDQT-LFQASGSGEGPKIVSPLSDLINNEVGRCVTECEISGSPREYRFWFKGCKELVDT-SKYTLINKGDKQVLLINDLTSDDADEYTCRATNSGTRSTRANL
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34875380.m ERILIVRGG-TSALTERKTDQNDQPSSEKEKITKLNNKNAEKTGSEVRCVICHVERODKIEFVQ-RNSTELREVA
Sgk085.h ERMVPSKR-TSALAV
30425168.m KEQAEVAGVKPNIVLTTGGVQADAASRTLWEESQKEDIPVRTVEGLPLIINTSLKGADLTQAGASLRLQGVFVLG-PGQVPLPTEAESRLPETASENTGATLELSVAIDLRSQGGQETSSSKPDCLWLSSEEMRLSSGPLQPPLGP-LTPDSDHSGDALPR
34851393.c ENKEQAEVAGVKPVNLNTGVSQAASTSRLWEESQKEDIPVRTVEGLPLIINTSLKGADLTQAGASLRLQGVFVLG-PGQEPPTTEAESRLPALSAEDGTTLVSEWAIDRSLRMSQSAEGTSSSKP-SEPQGPQLGP-LTIDHSDEGDLPR
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skMLCK.h PKKAPDPPTLKKDAKAPASEKDGTLAQFSTSSQGKGEGRGGGP-AEGASGPPAALPQQTATPETSVKPKAEQASGSQDPGKPRVGGKAAEQAARRGSPAFLHSP-SCPAIISSEKLLAK
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25145902.w MVRQIETKVLTNVLTLNIDSQDQGEFALKIKNRGEBDKYAIQVTDPR-AAPGK
25145904.w -MVRQIETKVLTNVLTLNIDSQDQGEFALKIKNRGEBDKYAIQVTDPR-AAPGK
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37620153.m STFLCLIREALPEDRGYKCVAKNSAGQAECSQVITVADAQTSENTKAPEMKSRRPKSSLPPVLTGESDATVKKPKPPTKAAMPQOIIQFPPEDQKVRA
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31198181.i -FVGQLPRIVHLPKVITVTEGSEVELSLELQCAELVKCSEKKNGRPFVKTSDFTATSNLPGTRLTLNTIEPAQGGKYSQLDKACPETEL
31198185.i GRPINTDS-NASTSNLPGTRLTLNTIEPAQGGKYSQLDKACPETEL
24653970.f EADWYLNGQLLAQADDLSNNTLESYEPENGIRLRLMRDVTA
24653966.i EADWYLNGQLLAQADDLSNNTLESYEPENGIRLRLMRDVTA
24653974.f -MSQLBESYEPENGIRLRLMRDVTA
24653972.f EADWYLNGQLLAQADDLSNNTLESYEPENGIRLRLMRDVTA
24653968.f EADWYLNGQLLAQADDLSNNTLESYEPENGIRLRLMRDVTA
31200097.i -LEEAPAVLDQDINVYVBGQPA
31197761.i -LEAAPAVLDQDINVYVBGQPA
19921930.f -LEAAPAVLDQDINVYVBGQPA
17570595.w -LEAAPAVLDQDINVYVBGQPA
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35902617.m SSSKPS-APSEPVQOLLEHGPP
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19922872.f -ASREDYGEYRVVVENSVDGSDGTVNVTADVP
31213063.i EKPIISXISLSDRRTLWSPSMTTVPRYPTQYLEMIELPDGEWHTTRSGIRGCS
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28558739.f GSHLDGSPYRITAENELGSDTAIIQVQISDRPDPFRFLIESIGTESLSLW
31242057.i HATPVGQVOLCYG-ASREDYGEYRVVVENSVDGSDGTVNVTADVP
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32565886.w RFLGGRARRR-ASREDYGEYRVVVENSVDGSDGTVNVTADVP
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Sgk085.h SISNIKTIISTPCILGNSASGPT
30425168.m IGSAAEAPG-LGTVILEDQIPKGARPFPLPKRSSNNNGMS
34851393.c ISVRMRMETTPPEELFETQGK-IGSAAEAPG
caMLCK.h VFPSIIFACLGISIHQEMDTPGEMMLTGRGSLGPTLT
skMLCK.h KPPSEASELTFEGVPM
17105364. KPLSETTELIFACVSET-PEAGQAEQAKVQDTS
25145902.w PAVEDQNVDSVRLRWAAPT-EDPDPGKAEEQDGGT
25145904.w PAVEDQNVDSVRLRWAAPT-NDGGSPVRNYTVMC
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37620153.m PCASDIRSSSLTSLWYGS
smMLCK.h PCASDIRSSSLTSLWYGS
31198181.i PTVALPSPALTAVSNPAP-EDRWC1KRV
31198185.i PTVALPSPALTAVSNPAP-EDRWC1KRV
24653970.f PSVS-LGDPDRVAVAVCGPP
24653966.f PSVS-LGDPDRVAVAVCGPP
24653974.f PSVS-LGDPDRVAVAVCGPP
24653972.f PSVS-LGDPDRVAVAVCGPP
24653968.f PSVS-LGDPDRVAVAVCGPP
31200097.i -YDGGSAVQSYISIEI
31197761.i -YDGGSAVQSYISIEI
19921930.f -YDGGSAVQSYISIEI
17570595.w -YDGGSAVQSYISIEI
1kwp_A
2phk_A
35902617.m -YDGGSAVQSYISIEI
Obscn.h SVLKRLLGPKAPGSTDLTGPGPCLRGAPAQLETGSQPPV
lia8_A
24762491.f DRDVGWYEA
19922872.f DRDVGWYEA
31213063.i DRDVGWYEA

	24810	24820	24830	24840	24850	24860	24870	24880	24890	24900	24910	24920	24930	24940	24950	24960	24970	24980	24990	250	
1tki_Titin	KELYKEYKMTAEDPDLGRCDEFIVHRCVETSSKKTYMAFVKVKGTDQVLVKKREISILNITARHNIIHLHESPESEEVMVMEF																			
TTN.h	PTIHKEDKTRALISIKDGLPKAKRKYVKELEDHGKPKRQG	MNYDEVDETRREVSMTKASHSSTKELYKMAEDPDLGRCDEFIVHRCVETSSKKTYMAFVKVKGTDQVLVKKREISILNITARHNIIHLHESPESEEVMVMEF																			
31242065.i	LISIKDGLPKAKRKYVKELEDHGKPKRQG	KKEAISDYDDYVFVYSKYKPVKPIISNCVYDQEYEEBTLQAFVWCRERKTCNVRAAEKIPVSTN	AEEELRRRIDIMNOLHHEKLILYHDAFEDDEMLVLIREF																		
28558739.f	LIKIEKVSKKKPIERKWEIDANGRKLRKG	ADGCPVKYDSDYYVFDYSKFKPQVQSQSVYDFDIEEICGCAFWCRER	STCNVAEAKIPVSHS	VERDLEHNMNLHBLHEKLINLDAFEDDEMLVLIREF																	
31242057.i	CSTCTPST	IPWEISNCVYDQEYEEBTLQAFVWCRERKTCNVRAAEKIPVSTN	AEEELRRRIDIMNOLHHEKLILYHDAFEDDEMLVLIREF																		
32565889.w	PVLIPGDERKR	KGTIVSSNYDNYVFDIWKQYQPWBIKHLDHVLDHYDIEEICGCAFWCRER	SDKEAVRKBLQMSVLRLHTRLVNLDHAFEDDEMVMLIREF																		
32565886.w	PVLIPGDERKR	KGTIVSSNYDNYVFDIWKQYQPWBIKHLDHVLDHYDIEEICGCAFWCRER	ATCNCNAEAKIPVTPHE	SDKEAVRKBLQMSVLRLHTRLVNLDHAFEDDEMVMLIREF																	
1koo_Twic	RKR-RRGYDVDEQCKIVRG	KGTIVSSNYDNYVFDIWKQYQPWBIKHLDHVLDHYDIEEICGCAFWCRER	ATCNCNAEAKIPVTPHE	SDKEAVRKBLQMSVLRLHTRLVNLDHAFEDDEMVMLIREF																	
38074389.m	QDLEVPLDDIFPAPA	-APFDHRMVMKAHSAVDLSLYSVSKSLIGGRCFQVHCKCEK	ATCGLKIAAKIILTR	-GAKDEDVKNHSVMNLDHVNLQIQLDAFESKHDIIIIVMEY																	
34875380.m	QDLAVQLDDDFPAPA	-APFDHRMVMKAHSAVDLSLYSVSKSLIGGRCFQVHCKCEK	ATCGLKIAAKIILTR	-GAKDEDVKNHSVMNLDHVNLQIQLDAFESKHDIIIIVMEY																	
Sgk085.k	DIFPAPA	APFDHRMVMKAHSAVDLSLYSVSKSLIGGRCFQVHCKCEK	ATCGLKIAAKIILTR	-GAKDEDVKNHSVMNLDHVNLQIQLDAFESKHDIIIIVMEY																	
30425168.m	EEAIVVLDSSAAPP	APFDHRMVMKAHSAVDLSLYSVSKSLIGGRCFQVHCKCEK	ATCGLKIAAKIILTR	-GAKDEDVKNHSVMNLDHVNLQIQLDAFESKHDIIIIVMEY																	
34851393.m	EEAIVVLDSSAAPP	APFEHRRVSKDTLISAGYTVTSQHEVILGCRFQVHCKCEK	STCLALAAKIIIVK	-GMKDKEEVKNBISVMNLDHVNLQIQLDAFESKNDIVLVMEMY																	
camLCK.h	EAGSVVLLDSSAAPP	APFEHRRVSKDTLISAGYTVTSQHEVILGCRFQVHCKCEK	STCLALAAKIIIVK	-NVKDRDVKNBSFTFLIMEY																	
skMLCK.h	EDCFQILDDCPPPP	APFEHRRVSKDTLISAGYTVTSQHEVILGCRFQVHCKCEK	STCLALAAKIIIVK	-NIKDRDVKNHSINIMNOLSHVNLIQLYDAFESKNSFTFLIMEY																	
17105364.m	EDCFQILDDCPPPP	APFEHRRVSKDTLISAGYTVTSQHEVILGCRFQVHCKCEK	STCLALAAKIIIVK	-SAKDRDVKNHSKHSVCLVMEY																	
25145902.w	LVVVKNRVVVEEKKKEVKV	EQESVDYERYVAKDSEPESEYKTIIDRLNDLQAKYIHEPCKACVTRATEK	ATCGLKIAAKIILTR	-ATCGLKIAAKIILTR																	
25145904.w	LVVVKNRVVVEEKKKEVKV	EQESVDYERYVAKDSEPESEYKTIIDRLNDLQAKYIHEPCKACVTRATEK	ATCGLKIAAKIILTR	-ATCGLKIAAKIILTR																	
1jkk_A	-TVF	RQENVD	DDDEKEPEVDYRIVTNTCEQKVSVDYVDEEERL	ATCGLKIAAKIILTR	-DDDEKEPEVDYRIVTNTCEQKVSVDYVDEEERL																
34869218.m	LTAVGEKPEEPKDEVEVS	DDDEKEPEVDYRIVTNTCEQKVSVDYVDEEERL	ATCGLKIAAKIILTR	-DDDEKEPEVDYRIVTNTCEQKVSVDYVDEEERL																	
37620153.m	LTAVGEKPEEPKDEVEVS	DDDEKEPEVDYRIVTNTCEQKVSVDYVDEEERL	ATCGLKIAAKIILTR	-DDDEKEPEVDYRIVTNTCEQKVSVDYVDEEERL																	
smMLCK.h	LTTVGEKPEEPKDEVEVS	DDDEKEPEVDYRIVTNTCEQKVSVDYVDEEERL	ATCGLKIAAKIILTR	-DDDEKEPEVDYRIVTNTCEQKVSVDYVDEEERL																	
31198181.i	PVTAQHEVKRINGT	QHQQPCPATLTHIASGDFNEQEYVKEV	ATCGLKIAAKIILTR	-ATCGLKIAAKIILTR																	
31198185.i	PVTAQHEVKRINGTSETRTSLLAASPSTTSGASFGSDVGNGESGGYADHEGDGGS	ATCGLKIAAKIILTR	-ATCGLKIAAKIILTR																		
24653970.f	LVQITTNTPQRSTSS	DASDRFGQATVSVSGGDFKSRFEIIEEL	ATCGLKIAAKIILTR	-ATCGLKIAAKIILTR																	
24653966.f	LVQITTNTPQRSTSS	DASDRFGQATVSVSGGDFKSRFEIIEEL	ATCGLKIAAKIILTR	-ATCGLKIAAKIILTR																	
24653974.f	LVQITTNTPQRSTSS	DASDRFGQATVSVSGGDFKSRFEIIEEL	ATCGLKIAAKIILTR	-ATCGLKIAAKIILTR																	
24653972.f	LVQITTNTPQRSTSS	DASDRFGQATVSVSGGDFKSRFEIIEEL	ATCGLKIAAKIILTR	-ATCGLKIAAKIILTR																	
24653968.f	LVQITTNTPQRSTSS	DASDRFGQATVSVSGGDFKSRFEIIEEL	ATCGLKIAAKIILTR	-ATCGLKIAAKIILTR																	
31200097.i		KQQFEILDPELGRQFCPTVPHCREK	ATCGLKIAAKIILTR	-KQQFEILDPELGRQFCPTVPHCREK																	
31197761.i		YCFIGSVSGRKCVVYK	ATCGLKIAAKIILTR	-YCFIGSVSGRKCVVYK																	
19921930.f		ANLQAAKIVF	ATCGLKIAAKIILTR	-ANLQAAKIVF																	
17570595.w	-VFDVKKLENIRAN	ENCKEAAKIPK	ATCGLKIAAKIILTR	-ENCKEAAKIPK																	
1kwp_A	PQFHVKSGLQIKKK	AIIIDKVVTSQNLICRQKQIF	ATCGLKIAAKIILTR	-AIIIDKVVTSQNLICRQKQIF																	
2phk_A	GFYENYEPEKILGR	RKAR-EVEKDRVWQTAPMELEHBLPAPELKE	ATCGLKIAAKIILTR	-RKAR-EVEKDRVWQTAPMELEHBLPAPELKE																	
35902617.m	NLAEGEVSKAELSVLSAQ	TAMEVEGVGEDEHRGRRLSDYYDPEQTRGAFSYLPRVVER	ATCGLKIAAKIILTR	-TAMEVEGVGEDEHRGRRLSDYYDPEQTRGAFSYLPRVVER																	
Obscn.h	NTGGQVLCKAELLVLGGD	NEPDSE-KQSHRKLBSFYE	ATCGLKIAAKIILTR	-NEPDSE-KQSHRKLBSFYE																	
1ia8_A		MAVPFVWEDLQVLCGECYEVLA	ATCGLKIAAKIILTR	-MAVPFVWEDLQVLCGECYEVLA																	
24762491.f	RNIAIGSISTSVTHIEEN	EDQYIYKTYGRHYEPKSKQLRQYDQKDYI	ATCGLKIAAKIILTR	-EDQYIYKTYGRHYEPKSKQLRQYDQKDYI																	
19922872.f	RNIAIGSISTSVTHIEEN	EDQYIYKTYGRHYEPKSKQLRQYDQKDYI	ATCGLKIAAKIILTR	-EDQYIYKTYGRHYEPKSKQLRQYDQKDYI																	
31213063.i	RNAIGSISSSTVHVEDN	EEDYVYNAHRTPYARRNKVNQYD	ATCGLKIAAKIILTR	-EEDYVYNAHRTPYARRNKVNQYD																	
	25010	25020	25030	25040	25050	25060	25070	25080	25090	25100	25110	25120	25130	25140	25150	25160	25170	25180	25190	252	
1tki_Titin	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	
TTN.h	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	
31242065.i	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	
28558739.f	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	
31242057.i	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	
32565889.w	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	
32565886.w	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	
1koo_Twic	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	ISCGGELFERINTSA	
38074389.m	ISCGGELFERWIDEN	CNLTEDDIFLPMKQICECGYRHMOMYIHLHDLK	ATCGLKIAAKIILTR	-ATCGLKIAAKIILTR																	
34875380.m	ISCGGELFERWIDEN	CNLTEDDIFLPMKQICECGYRHMOMYIHLHDLK	ATCGLKIAAKIILTR	-ATCGLKIAAKIILTR																	
Sgk085.k	DIFPAPA	ATCGLKIAAKIILTR	-ATCGLKIAAKIILTR																		
30425168.m	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	
34851393.m	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	
camLCK.h	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	
skMLCK.h	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	
17105364.m	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	
25145902.w	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	
25145904.w	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	VDGGEELFERINTSA	
1jkk_A	VAEGELDFPAPPE	SLTEBPAPELKEVQH																			



lia8_A
24762491.f
19922872.f
31213063.i

TVLICYSLOQKLNCDAWTTVADNIDHEFYLLHDLOPNTINYQFRLASKNRIGWSEMGIP-VSASTVGGDAPKIHITKAMKHLQLTENGHQVPPPEERVHTDYHCEREPNNWVTDSSVSDKYSFISIEIARG
TVLICYSLOQKLNCDAWTTVADNIDHEFYLLHDLOPNTINYQFRLASKNRIGWSEMGIP-VSASTVGGDAPKIHITKAMKHLQLTENGHQVPPPEERVHTDYHCEREPNNWVTDSSVSDKYSFISIEIARG
QVICYSLEQEKEHGKADWVVDVASIDHEFFLVHDLRPTVGYQFRILAAYNRIGWSDRGLPTKTITLEPGAKQIITRAMKHLQLQTESQQVGEERTGRLDYSYEKTPFLKWSIEGNYNEKYTFMSEMAR

26600 26410 26420 26430 26440 26450 26460 26470 26480 26490 26500 26510 26520 26530 26540 26550 26560 26570 26580 26590

1tki_Titin TTN.h EVPRSVPELTTRTEAYAVPSFKKTSEMEASSVREVKSGMTETRSLSSYEHSAAEKSAEKKLEEKSTTRKIKTTLAARILTKRSMTVVEGGSARPSCTDGEPEVPTVTWLRKGOVLTSARHVTTTKYKSTFEISSVQASDEGNYSVVENSEGKQEAETTLTIQKARVTEKAUTSPRVRKSPEPRVKSPSKTSAGC
31242065.i EWVTPCEAQALAHNFLESGDRKYIEQPIKAPPLPIVTSRQYTSVQNTSEPOGDKVNVSNNSG
28558739.f EWVTPCEAQALAHNFLESGDRKYIEQPIKAPPLPIVTSRQYTSVQNTSEPOGDKVNVSNNSG
31242057.i KGEPEPIPVRSS
32565889.w FRPRAYDTLSTGTDVE
32565886.w FRPRAYDTLSTGTDVE
1kca_Twic 38074389.m
34875380.m
SgK085.h
30425168.m
34851393.m
caMLCK.h
skMLCK.h
17105364.m
25145902.w YIFRVAQKNGQGLGEWESEMSTLKTAVGQAPQFTISPQSKIIANRDFEIAVEFSGTPPSVKWYKENLQIVPDEKIDVATTSTSSLNLKSQEEGTFNCLIEELGGQASCQVTFNPKFASLQSTPDHSLERNLVPTLQKALNNESAAQGQIIMLTCRISRS ESTVAWFKDDERIESAGRYELSSDKKSNHKLV
25145904.w YIFRVAQKNGQGLGEWESEMSTLKTAVGQAPQFTISPQSKIIANRDFEIAVEFSGTPPSVKWYKENLQIVPDEKIDVATTSTSSLNLKSQEEGTFNCLIEELGGQASCQVTFNPKFASLQSTPDHSLERNLVPTLQKALNNESAAQGQIIMLTCRISRS ESTVAWFKDDERIESAGRYELSSDKKSNHKLV
1jkk_A 34869218.m
37620153.m
smMLCK.h
31198181.i
31198185.i
24653970.
24653966.f
24653974.f
24653972.f
24653968.f
31200097.i
31197761.i
19921930.f
17570595.w
1kwp_A
2phk_A
35092617.m YRPSPACTPYLELVRPERSRS-VQDLRVAGEPGLVRRLSLSLSQKLRLRTPPGQRIPAWERSGDGESEGGSSARASPVLAVERRLSSTLERLSSRLQRSGSSEDSGGASCRTPLFGRLLRATSEQESLRRLGVPNOLGQQTGATTESARSLOSEASGTSGSSAPGEERSRIRWGLSLRIRKDGQLSQ-EQEAAEAEQSSEQQEAEAESPLPQVSARPVPEVGRAPTRSSPEPTPWEDIGQVSLVQIRDLSQDAAADTISLDIYEVDPAYLNLSDLYDICKYLPFEMIFRKVPKSAQEPSPMAEEELAEPFPETWPWPGELPHAGLEITEESEDVDALLAEAVGRKRKWSSPERSLHFPGRLPDEPAELGLRERVKASVE
Obscn.h
lia8_A
24762491.f EFSTIVKGICKSTDVVAKILEVDE-NEONDVAEFDNFKTLRERIPALPFSAYKELNV
19922872.f EFSTIVKGICKSTDVVAKILEVDE-NEONDVAEFDNFKTLRERIPALPFSAYKELNV
31213063.i RYSIVVKGLEKATDKIVVAKIFELGDERSAEAVEREFDVLRTLHERIGALLAAFR-KNTS

26800 26610 26620 26630 26640 26650 26660 26670 26680 26690 26700 26710 26720 26730 26740 26750 26760 26770 26780 26790

1tki_Titin TTN.h VKSKVVKSPKAVSEETETKPKTPREKQHLPVSAPPKITEAKLTCVVESSVLRAKEVTVKDKGKLUKEENGHQFELYSDGTYELKINNLTESDQGEVYKCISEGEGTSKQAFKSIHEKVSKLSETKKSDQTTTESTVTRKTEKAPPEPISSKPVIVTGLQDTTVSSDVAKEPKATGE
31242065.i LGAPTNEARSRNSTRELMLPQSDLSMHPPEFTQKLKDQVIAADGPEQLQLNCHVNGDLPQIVWTKDQKLSSSD-VIDIKYKSGIASLRINESTQCKLD
28558739.f ISNNKKYASNLQAPGSPSRATKELLIPDPDSLMCKPEFTKLLHDLTHDGEQQLLTCYYVKGDIEPQISWSKNGKSLDIDLRYKNGNIAATLINVFFEDGVITCTATNSVCAVETKCKLT
31242057.i IQLPLKNINKRKVNA-AGDNAFVTKVSHLESRFVRDGAVNLAICRIGA
32565889.w RSHSYADMRRSLIRLDVSPDVRSAADDLKTKITN-ELPSFTAQLSDSETEVGGSAEFSAAVSGQEPPLIEWLHNGERISESDGFRFRASVYAGKATLRIIDAKKSDEGQYLCRASNSAGQEQTRATLT- VKGDQPLNL-HAGQAVESLRLVTKHLGGEVNNNGESVTFEARVQG-
32565886.w RSHSYADMRRSLIRLDVSPDVRSAADDLKTKITN-ELPSFTAQLSDSETEVGGSAEFSAAVSGQEPPLIEWLHNGERISESDGFRFRASVYAGKATLRIIDAKKSDEGQYLCRASNSAGQEQTRATLT- VKGDQPLNL-HAGQAVESLRLVTKHLGGEVNNNGESVTFEARVQG-
1kca_Twic 38074389.m
34875380.m
SgK085.h
30425168.m
34851393.m
caMLCK.h
skMLCK.h
17105364.m
25145902.w CHAVQSQDTGKYRCVVINKYGYAESECNVAVEDVTKFIAPSFSATLSDSTAILGHNITILECKVGEPSAPEVSWTKDGERIRSTTRRIRQTQDENGNCKLISIKAESDDMVYVCATSAGVDSSTSVMIAKTTGTDHVLIAQTADEKHEKPFRTRAPPSELIEVNESGQFTLIAKAVGEPKPTVTLKDGRBILRTNRI
25145904.w CHAVQSQDTGKYRCVVINKYGYAESECNVAVEDVTKFIAPSFSATLSDSTAILGHNITILECKVGEPSAPEVSWTKDGERIRSTTRRIRQTQDENGNCKLISIKAESDDMVYVCATSAGVDSSTSVMIAKTTGTDHVLIAQTADEKHEKPFRTRAPPSELIEVNESGQFTLIAKAVGEPKPTVTLKDGRBILRTNRI
1jkk_A 34869218.m
37620153.m
smMLCK.h
31198181.i
31198185.i
24653970.
24653966.f
24653974.f
24653972.f
24653968.f
31200097.i
31197761.i
19921930.f
17570595.w QERIJKKSTLKDQDVAQVSLQOSIKVNGEKHKESKVIGTKTVINKLELKGEEITINANPKKSSLKATAKVTGETTKHLEISTDGKLGVLKIKDITTSMLSPDSSSDTSSSKNVRILLTDEQSVKSSVRSHPSVSTRDSESEERKKVRFAGDVGTPTKLNPPPLFGNGLQKMRSESSHLHEKINGLTTKKSHDDVSLARKTS

31200097.i
31197761.i
19921930.f
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